

**DIGISOL®**

SWITCHING SOLUTIONS

DIGISOL L2 Gigabit Dual Stack Intelligent Switches

DG-GS4600E Series

Key Features:-

- Energy Efficient with Energy saving feature & Fan less design
- Advanced Security Features including RADIUS & TACACS+ Authentication
- Supports Ethernet Ring Protection Switching (ERPS)
- Supports Multicast Features including MVR (Multicast VLAN Register)



Introduction:-

DIGISOL DG-GS4600E Series switches are series of Layer 2 Gigabit intelligent switches. It supports comprehensive QoS, enhanced VLAN functions (VLAN, Voice VLAN, QinQ, N: 1 VLAN Translation etc), Ethernet Ring Protection Protocol (G.8032), classified bandwidth control, intelligent security control, OAM (Operations, Administration and Maintenance), manageability functions and Triple-Play services. DG-GS4600E Series switches also offers green features like IEEE 802.3az (Energy Efficient Ethernet), Fan-less design feature, which can dramatically lower power consumption. This series switches with full GE ports, integrates advanced management and security functions to provide performance and scalability.

Hardware Features

Item	DG-GS4652E	DG-GS4628E	DG-GS4610E	DG-GS4628HPE	DG-GS4610HPE
Ports	48x10/100/1000Base-T	24x10/100/1000Base-T	8x10/100/1000Base-T	24x10/100/1000Base-T	8x10/100/1000Base-T
Performance					
Switching Capacity	104Gbps	56Gbps	20Gbps	56Gbps	20Gbps
Forwarding Rate	77.4Mpps	41.7Mpps	14.88Mpps	41.7Mpps	14.88Mpps
MAC address	16K	16K	8K	16K	8K
Jumbo Frame	12K	12K	9K	12K	9K
ACL Table	2K+256	2K+256	1.5K+256	2K+256	1.5K+256
Queues Per Port	8	8	8	8	8
VLAN Table	4K	4K	4K	4K	4K
Physical					
Dimension(W×H×D)	442 x 220 x 43.6 mm	442 x 220 x 43.6 mm	250 x 180 x 43.6 mm	442 x 220 x 43.6 mm	330 x 220 x 43.6 mm
Power Input	100~240VAC, 50~60Hz				
Temperature	Working 0°C~50°C, Storage -40°C~70°C				
Relative Humidity	5%~95%,non-condensing				
PoE	NA	NA	NA	IEEE 802.3af POE (15.4W) IEEE 802.3at POE+ (30W) PoE Budget: 185w	IEEE 802.3af POE (15.4W) IEEE 802.3at POE+ (30W) PoE Budget: 124w



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Technical Specifications:-

MAIN FEATURES

Storage & Forwarding

VLAN:

- Port-based VLAN
- IEEE802.1Q
- Private VLAN
- Protocol VLAN
- Voice VLAN
- MAC VLAN
- Q-in-Q, Selective QinQ, Flexible QinQ
- VLAN Translation, N:1 VLAN Translation

DHCP:

- IPv4/ IPv6 DHCP Client
- IPv4/ IPv6 DHCP Relay Option 82, Option 37/38
- IPv4/ IPv6 DHCP Snooping
- IPv4/ IPv6 DHCP Server

Reliability

SPANNING TREE PROTOCOL:

- 802.1D Spanning Tree
- 802.1w Rapid Spanning Tree
- 802.1s Multiple Spanning Tree
- Root Guard
- BPDU Guard
- BPDU Forwarding

LACP:

- DG-GS4652E: 16 groups / 8 ports
- DG-GS4628E: 16 groups / 8 ports
- DG-GS4628HPE: 16 groups / 8 ports
- DG-GS4610E: 16 groups / 8 ports
- DG-GS4610HPE: 8 groups / 8 ports

L2 Ring Protection

- MRPP - ITU-T G.8032
- Fast Link - Loopback Detection

Security Features

- IP ACL, MAC ACL, MAC-IP ACL, User-Defined ACL
- Time Range ACL
- ACL on VLAN interface
- Storm Control based on packets & bytes
- Port Security, MAC Limit based on VLAN and Port
- Anti-ARP-Spoofing, Anti-ARP-Scan, ARP Binding
- ND Snooping
- Dynamic ARP Inspection (DAI)
- IEEE 802.1x
- Authentication, Authorization, Accounting
- Radius & TACACS+

Multicast

- IGMP Snooping (V1,v2,v3)
- IGMP Fast Leave
- MLD v1/ v2 Snooping
- MVR

QOS Features

- 8 Queue Per Port
- Bandwidth Control
- Flow Redirect
- Classification based on
 - ACL (Access Control List)
 - VLAN ID - COS
 - TOS - DSCP

- Policy Based on Port & VLAN
- Remark DSCP, COS/ 802.1p, Precedence, TOS
- SP, WDRR, SWDRR for Scheduling
- Match the IP fragmentation of message

Maintenance & Operation Management

- TFTP/FTP
- CLI, Telnet, Console
- Web/SSL (IPv4/IPv6)
- SSH (IPv4/IPv6)
- SNMPv1/v2c/v3
- SNMP Trap
- Public & Private MIB interface
- RMON 1,2,3,9
- Ping, Trace Route
- Radius Authentication
- Syslog (IPv4/IPv6)
- SNTP/NTP (IPv4/IPv6)
- Dual IMG, Multiple Configuration Files
- Port Mirror, CPU Mirror, RSPAN, ERSPAN
- sFlow - OAM
- ULDP (Like Cisco UDLD)
- LLDP/LLDP MED

Green Energy

- IEEE 802.3az (Energy Efficient Ethernet)
- FAN less and Smart FAN design
- LED Shut-Off



Ordering Information:-

DG-GS4652E: L2 Gigabit Intelligent Ethernet Switch with 48x10/100/1000Base-T

DG-GS4628E: L2 Gigabit Intelligent Ethernet Switch with 24x10/100/1000Base-T

DG-GS4610E: L2 Gigabit Intelligent Ethernet Switch with 8x10/100/1000Base-T

DG-GS4628HPE: L2 Gigabit Intelligent Ethernet PoE Switch with 24x10/100/1000Base-T

DG-GS4610HPE: L2 Gigabit Intelligent Ethernet PoE Switch with 8x10/100/1000Base-T

*Warranty shall be subject to terms and conditions specified in the DIGISOL PRODUCT WARRANTY displayed on the website of the company.

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